

(FILE 'HOME' ENTERED AT 10:41:21 ON 06 MAY 2000)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, BIOSIS, MEDICINF'
ENTERED AT 10:42:52 ON 06 MAY 2000

L1 136952 S TRANSGENIC
L2 725 S L1 AND (NF-L OR NEUROFILAMENT)
L3 358 S L2 AND HUMAN
L4 355 S L3 AND (MICE OR MOUSE OR RAT)
L5 107 S L4 AND (HUMAN NEUROFILAMENT)
L6 45 DUP REM L5 (62 DUPLICATES REMOVED)
L7 45 SORT L6 PY

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	45.41	45.86
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.23	-2.23

STN INTERNATIONAL LOGOFF AT 10:54:33 ON 06 MAY 2000

L7 ANSWER 13 OF 45 MEDLINE

TI Functional analysis of the human neurofilament light chain gene promoter.

SO NUCLEIC ACIDS RESEARCH, (1993 Feb 11) 21 (3) 455-61.
Journal code: O8L. ISSN: 0305-1048.

AU Yazdanbakhsh K; Fraser P; Kioussis D; Vidal M; Grosveld F; Lindenbaum M

AB We have carried out a structural and functional analysis on the human NF-L (H-NF-L) gene.

It contains a methylation-free island, spanning the 5' flanking sequences and the first exon and a number of neuronal-specific DNase I hypersensitive sites have been identified in the upstream region as well as within the body of the gene. Analysis in cell lines and transgenic mice using a combination of these sites has revealed the presence of a conserved element(s) between -300bp and -190bp which is required for neuronal-specific expression.

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transgenic mice using a combination of these sites has
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L7 ANSWER 1 OF 45 MEDLINE
TI Expression and assembly of a human neurofilament
protein in transgenic mice provide a novel neuronal
marking system.
SO GENES AND DEVELOPMENT, (1987 Dec) 1 (10) 1085-95.
Journal code: FN3. ISSN: 0890-9369.
AU Julien J P; Tretjakoff I; Beaudet L; Peterson A
AB To investigate the regulation of neurofilament gene expression,
we have generated several lines of transgenic mice
carrying multiple copies of a cloned human neurofilament
(NF-L) gene. We show that a 21.5-kb DNA fragment
including the human NF-L gene contains
essential information for correct expression in nervous tissue of
transgenic mice. The integrated genes are arranged in
multiple tandem arrays, but the extent of transgene expression does not
correlate with copy number nor does it influence the expression of the
endogenous neurofilament genes. However, the levels of
human NF-L protein recovered in
neurofilament preparations from brains of transgenic
mice correlate directly with the relative abundance of
human NF-L mRNA detected in each line. There
is an apparent delay in the accumulation of human NF-
L protein during development, as determined by immunoblotting with
a human-specific monoclonal antibody. Finally,
immunohistochemical localization of the human NF-
L protein results in the specific staining of neurons and their
processes in transgenic mice.

L7 ANSWER 18 OF 45 CAPLUS COPYRIGHT 2000 ACS
 TI Transgenic animal models for neurodegenerative disease
 SO PCT Int. Appl., 88 pp.
 CODEN: PIXXD2

IN Lazzarini, Robert A.

AB The design, construction, and use of transgenic animals which exhibit features, including neurofibrillary tangles and aluminum sensitivity, is described. The founder transgenic animals are produced by methods well known in the art, and utilize DNA sequences designed to express all or any part of the human neurofilament subunit M (NF-M) gene in a neural-enriched manner. The animal model can be used for the studies of the causes and treatment of neurodegenerative disease, e.g., Alzheimer's disease. Prepn. and characterization of transgenic mice were shown.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9406282	A1	19940331	WO 1993-US8981	19930922
	W:	AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, UZ, VN			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5602299	A	19970211	US 1992-950092	19920923

L7 ANSWER 17 OF 45 SCISEARCH COPYRIGHT 2000 ISI (R)
TI BOTH UPSTREAM AND INTRAGENIC SEQUENCES OF THE HUMAN
NEUROFILAMENT LIGHT GENE DIRECT EXPRESSION OF LACZ IN NEURONS OF
SO TRANSGENIC MOUSE EMBRYOS
JOURNAL OF MOLECULAR NEUROSCIENCE, (1994) Vol. 5, No. 4, pp. 273-295.
ISSN: 0895-8696.
AU LECONTE L; SEMONIN O; ZVARA A; BOISSEAU S; POUJEOL C; JULIEN J P;
SIMONNEAU M (Reprint)
AB Initial expression of the neurofilament light gene coincides
with the appearance of postmitotic neurons. To investigate the molecular
mechanisms involved in neuron-specific gene expression during
embryogenesis, we generated transgenic mice carrying
various regions of the human neurofilament light gene
(hNF-L) fused to the lacZ reporter gene. We found that 2.3 or 0.3 kb of
the hNF-L promoter region directs expression of lacZ in neurons of
transgenic embryos. Addition of 1.8 kb hNF-L intragenic sequences
(IS) enlarges the neuronal pattern of transgene expression. The 2.3-kb
hNF-L promote lacZ-IS construct contains all regulatory elements essential
for both spatial and temporal expression of the hNF-L gene during
embryogenesis and in the adult. The use of a heterologous promoter
demonstrated that the 1.8-kb hNF-L intragenic sequences are sufficient to
direct the expression of lacZ in a NF-L-specific
manner both temporally and spatially during development and in the adult.
We conclude that these hNF-L intragenic sequences contain cis-acting DNA
regulatory elements that specify neuronal expression. Taken together,
these results show that the neurofilament light gene contains
separate upstream and intragenic elements, each of which directs lacZ
expression in embryonic neurons.